

Contents

	Preface	vii
1	Introduction: Development of Research in the Cerrados <i>Paulo S. Oliveira and Robert J. Marquis</i>	1
I		
Historical Framework and the Abiotic Environment		
2	Relation of Soils and Geomorphic Surfaces in the Brazilian Cerrado <i>Paulo E. F. Motta, Nilton Curi, and Donald P. Franzmeier</i>	13
3	Late Quaternary History and Evolution of the Cerrados as Revealed by Palynological Records <i>Marie-Pierre Ledru</i>	33
4	The Fire Factor <i>Heloisa S. Miranda, Mercedes M. C. Bustamante, and Antonio C. Miranda</i>	51
5	Past and Current Human Occupation, and Land Use <i>Carlos A. Klink and Adriana G. Moreira</i>	69
II		
The Plant Community: Composition, Dynamics, and Life History		
6	Vegetation Physiognomies and Woody Flora of the Cerrado Biome <i>Ary T. Oliveira-Filho and James A. Ratter</i>	91
7	Herbaceous Plant Communities <i>Tarciso S. Filgueiras</i>	121
8	Patterns and Dynamics of Plant Populations <i>Raimundo P. B. Henriques and John D. Hay</i>	140
9	The Role of Fire in Population Dynamics of Woody Plants <i>William A. Hoffmann and Adriana G. Moreira</i>	159

- 10** Ecophysiology of Woody Plants 178
Augusto C. Franco

III

The Animal Community: Diversity and Biogeography

- 11** Lepidoptera in the Cerrado Landscape and the Conservation of Vegetation, Soil, and Topographical Mosaics 201
Keith S. Brown Jr. and David R. Gifford
- 12** The Character and Dynamics of the Cerrado Herpetofauna 223
Guarino R. Colli, Rogério P. Bastos, and Alexandre F. B. Araujo
- 13** The Avifauna: Ecology, Biogeography, and Behavior 242
Regina H. F. Macedo
- 14** The Cerrado Mammals: Diversity, Ecology, and Natural History 266
Jader Marinho-Filho, Flávio H. G. Rodrigues, and Keila M. Juarez

IV

Insect-Plant Interactions

- 15** Ant Foraging on Plant Foliage: Contrasting Effects on the Behavioral Ecology of Insect Herbivores 287
Paulo S. Oliveira, André V. L. Freitas, and Kleber Del-Claro
- 16** Interactions Among Cerrado Plants and Their Herbivores: Unique or Typical? 306
Robert J. Marquis, Helena C. Morais, and Ivone R. Diniz
- 17** Pollination and Reproductive Biology in Cerrado Plant Communities 329
Paulo E. Oliveira and Peter E. Gibbs

V

The Conservation of the Cerrados

- 18** Biodiversity and Conservation Priorities in the Cerrado Region 351
Roberto B. Cavalcanti and Carlos A. Joly
- Contributors 369
- Index 373